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Fig. 1A

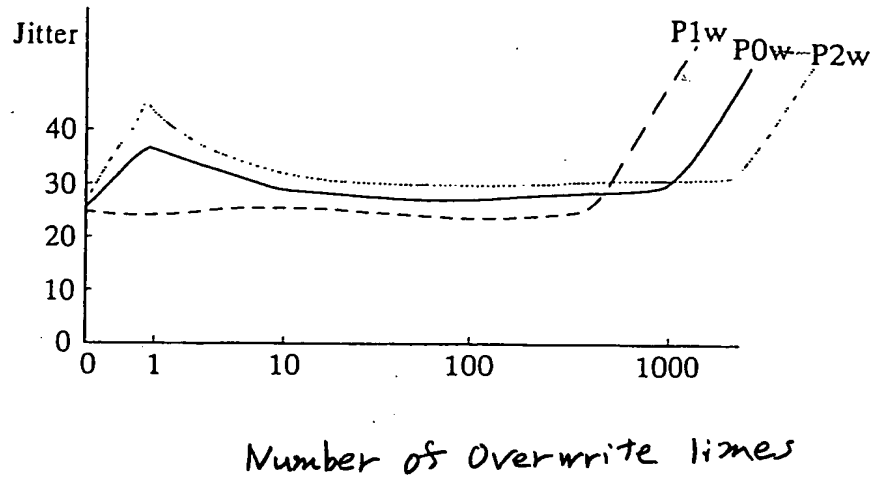
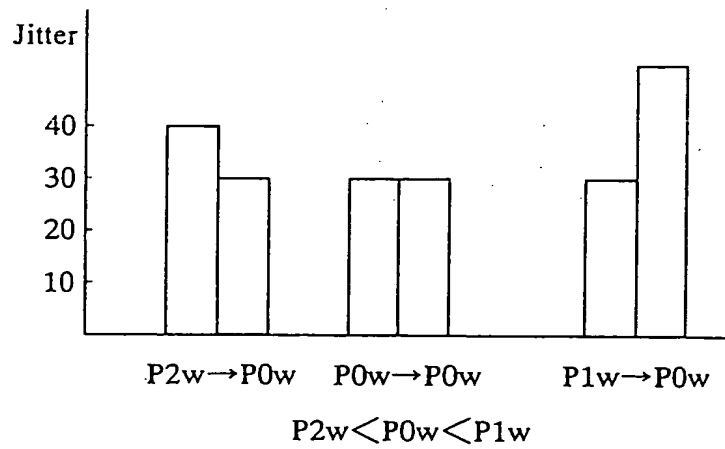


Fig. 1B

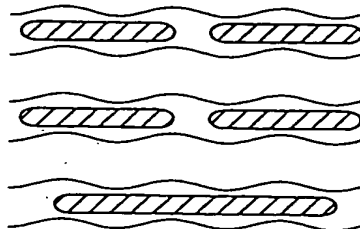


$P0w$: Optimum Recording Power

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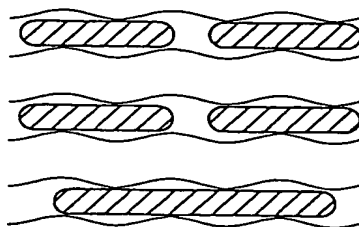
Recording Power P_{2W}

Fig. 2A



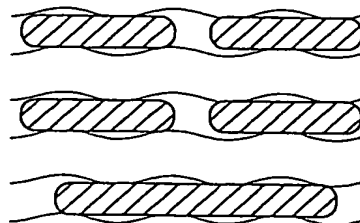
Recording Power P_{0W}

Fig. 2B



Recording Power P_{1W}

Fig. 2C



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Fig. 3A

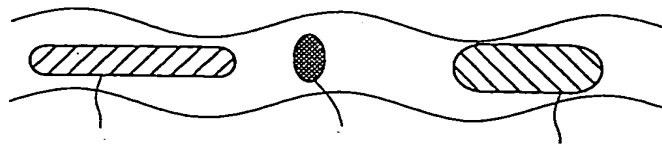
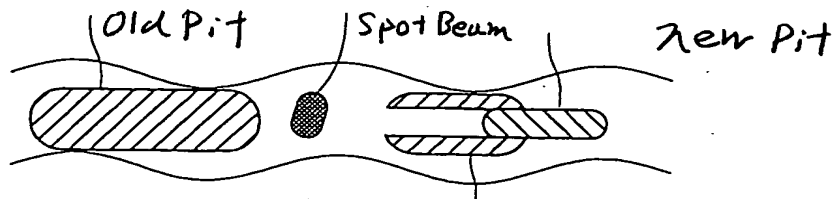
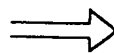


Fig. 3B



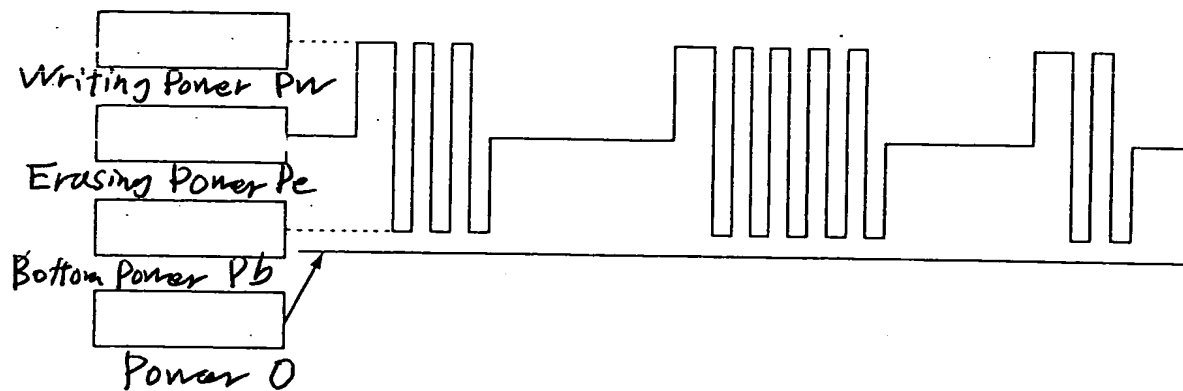
Not Rewritten Yet

Unused Remnant of Old Pit
Already Rewritten

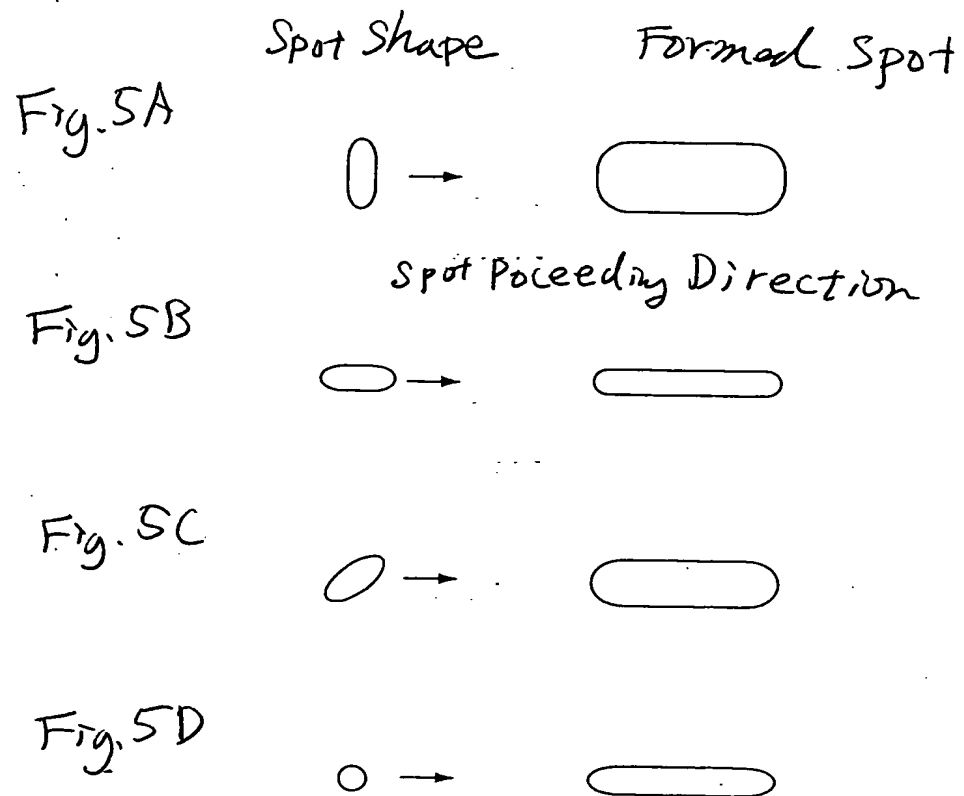


Recording Direction

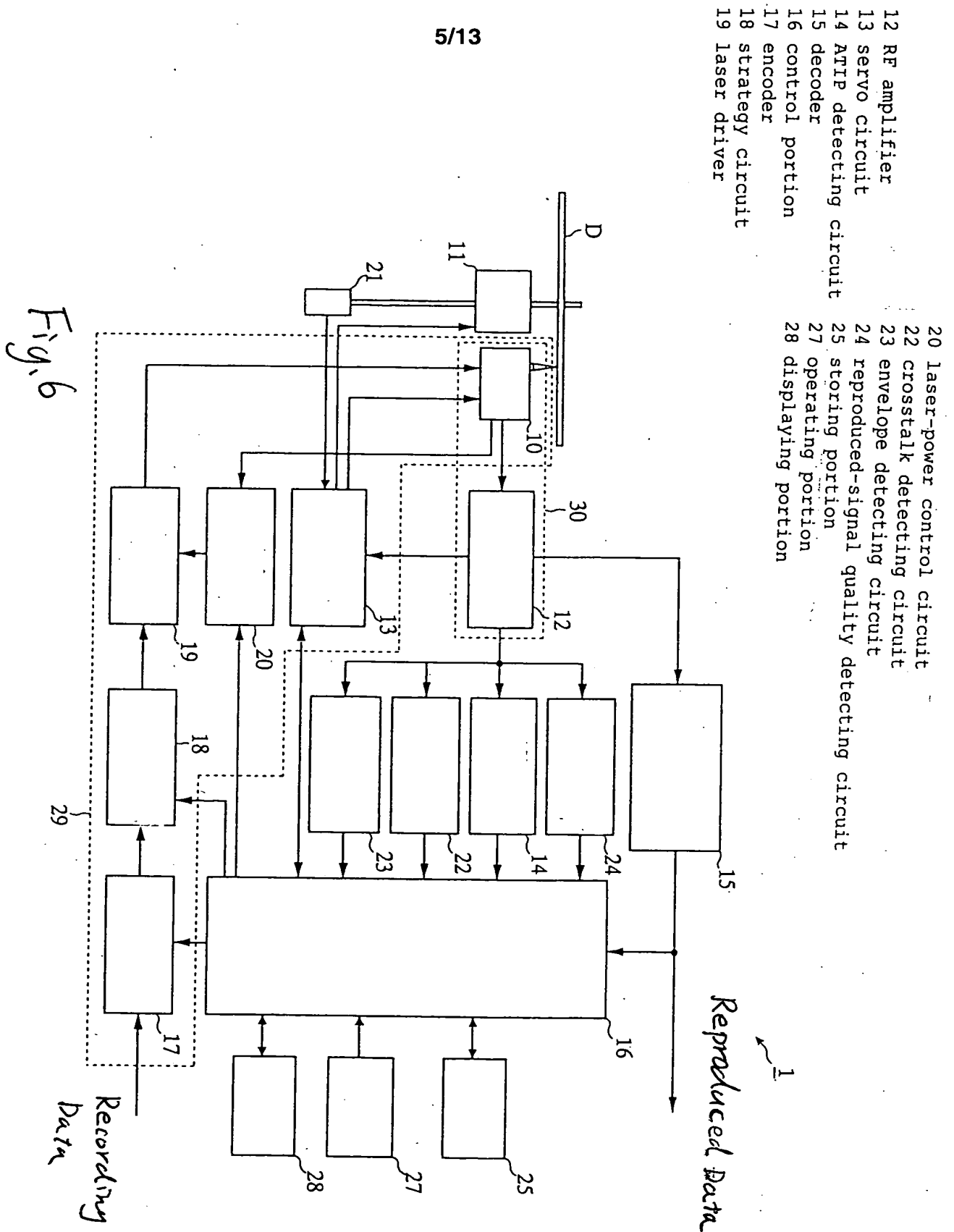
Fig. 4



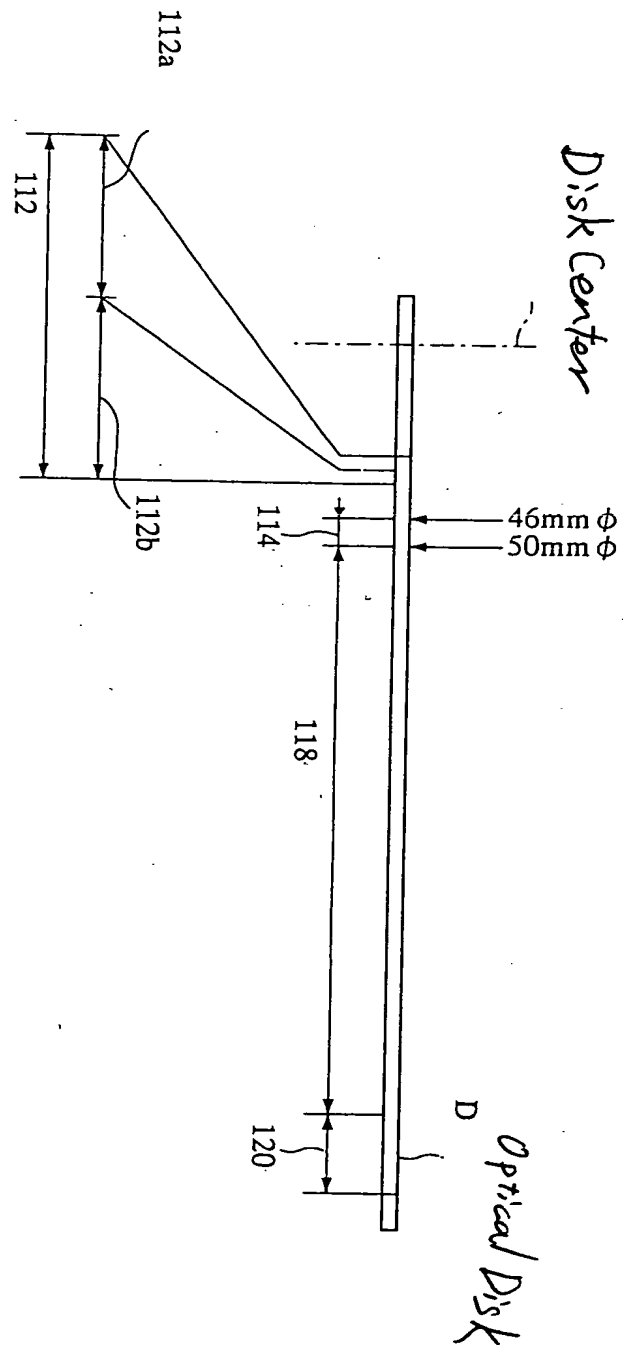
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Fig. 8A

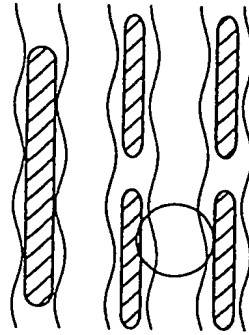


Fig. 8B

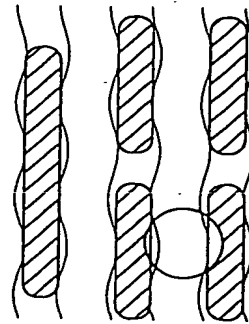
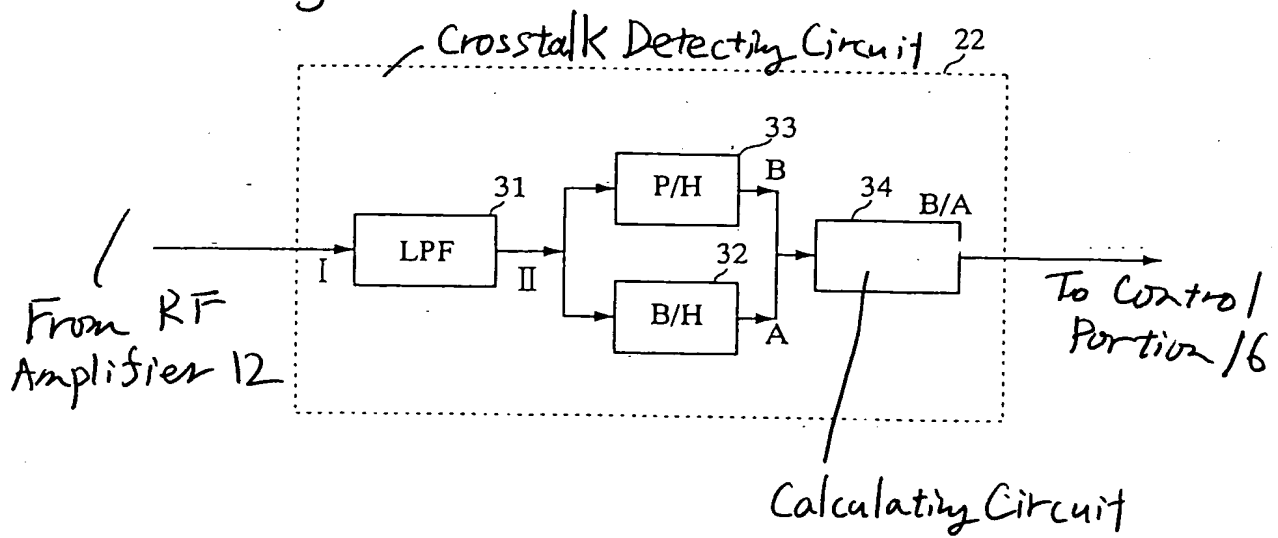


Fig. 9



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Fig. 10A

Signal I

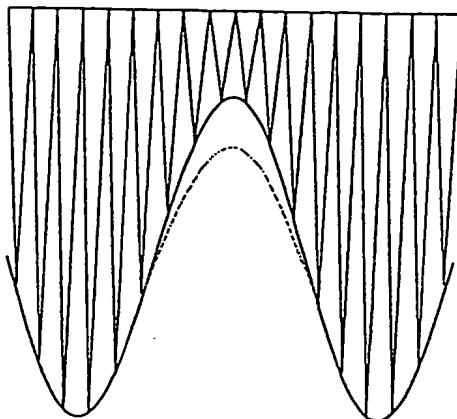
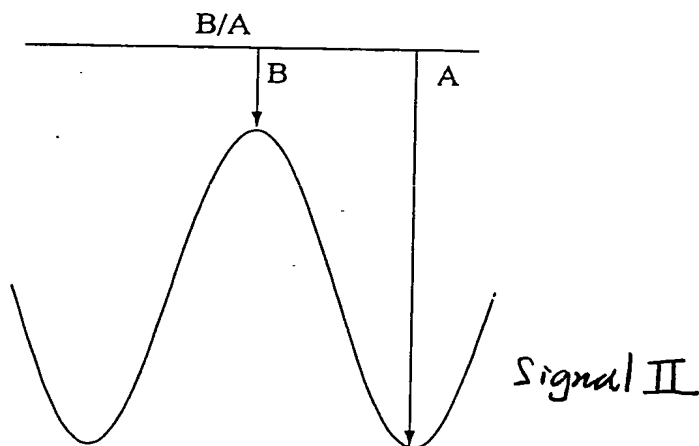


Fig. 10B

Definition of Crosstalk



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start

S1 Optical disk set ?

S2 acquire initial information of the optical disk,
decide the type of disk

S3 display an inquiry of process

S4 Processed input present ?

S5 Recording process ?

S6 reproducing process

S7 overwrite ?

S9 record the data

S11 reproduce the old data

S12 acquire CT1

S13 read CT0 from the storing portion

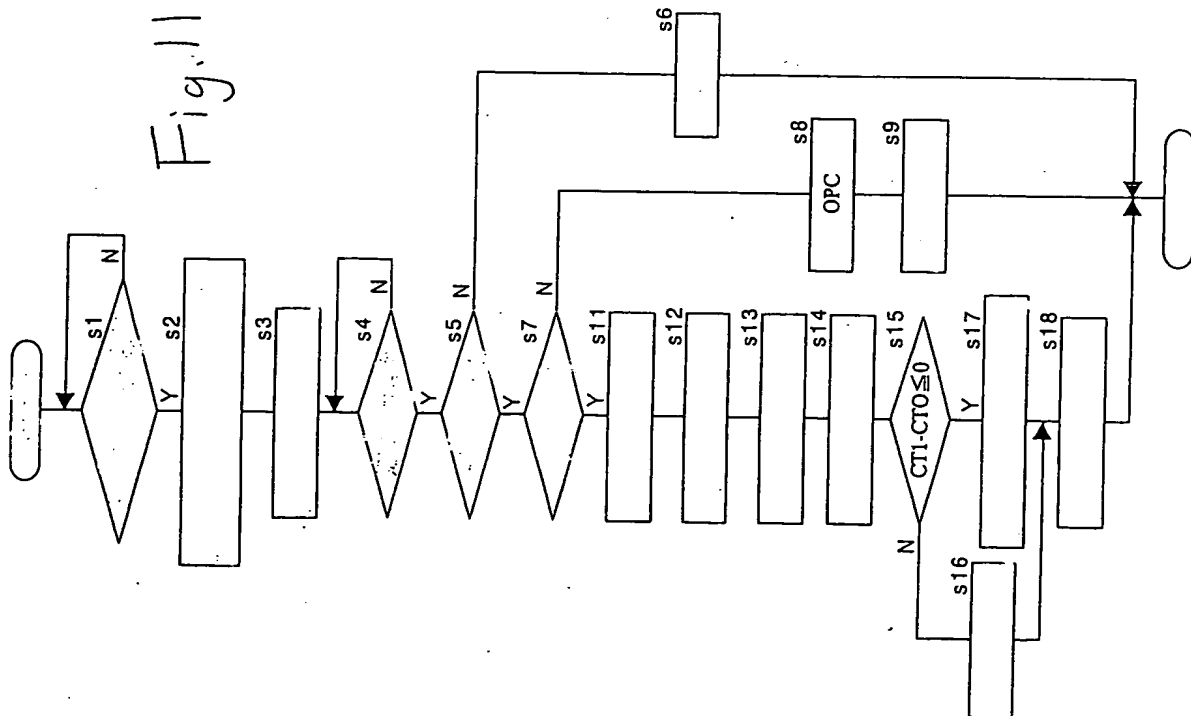
S14 calculate CT1-CT0

S16 change recording conditions

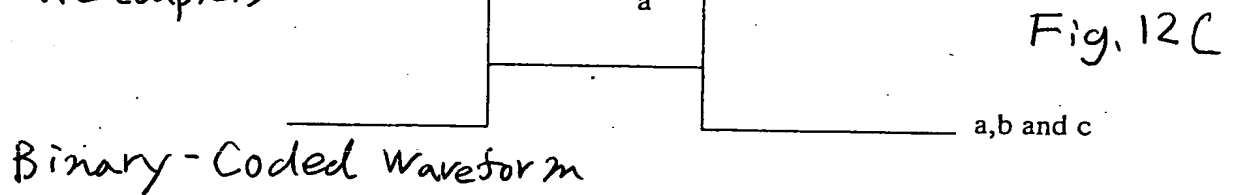
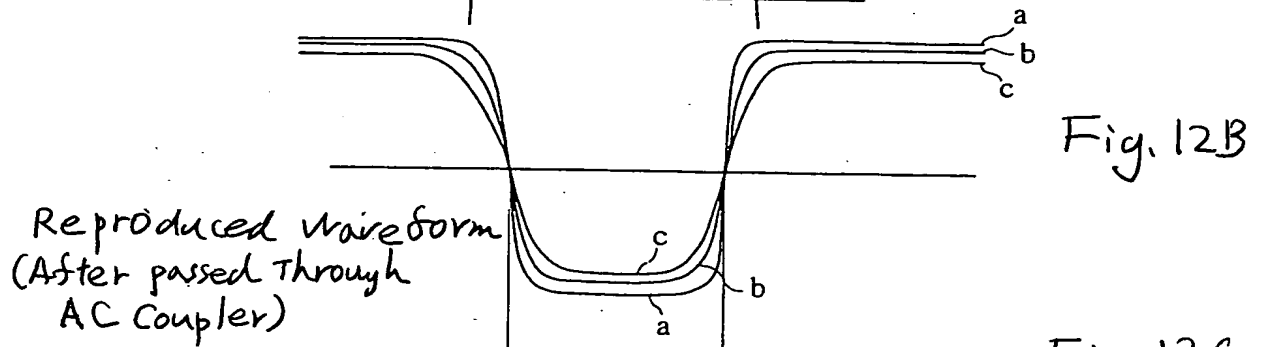
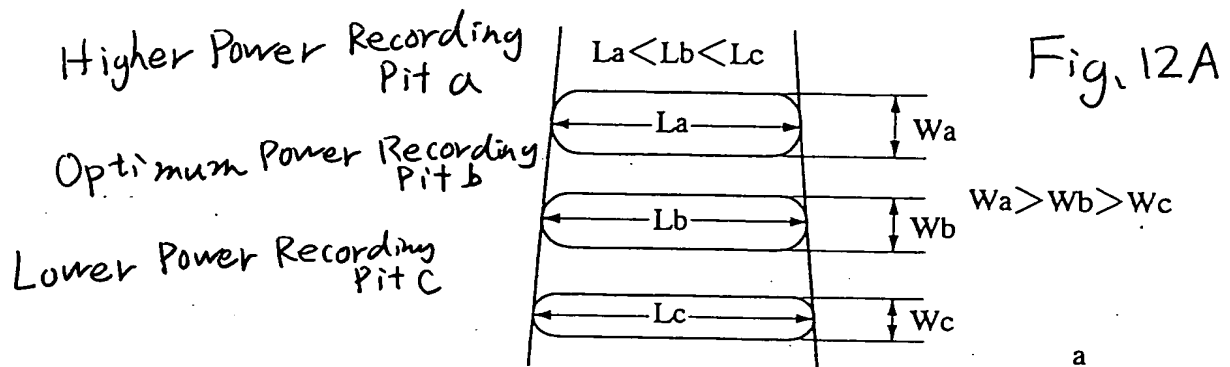
S17 set the recording conditions to initial values

S18 overwrite

end



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Fig. 13A

Higher Power Recording
Eye Pattern

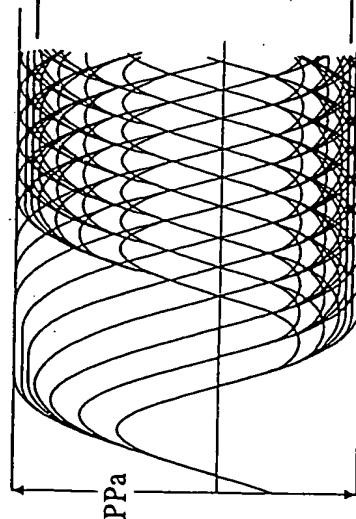


Fig. 13B

Optimum Power Recording
Eye Pattern

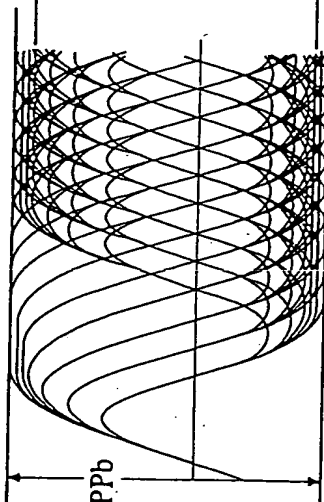
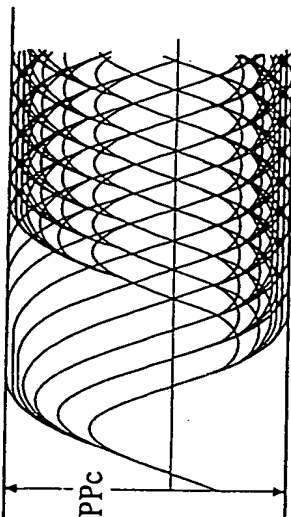


Fig. 13C

Lower Power Recording
Eye Pattern



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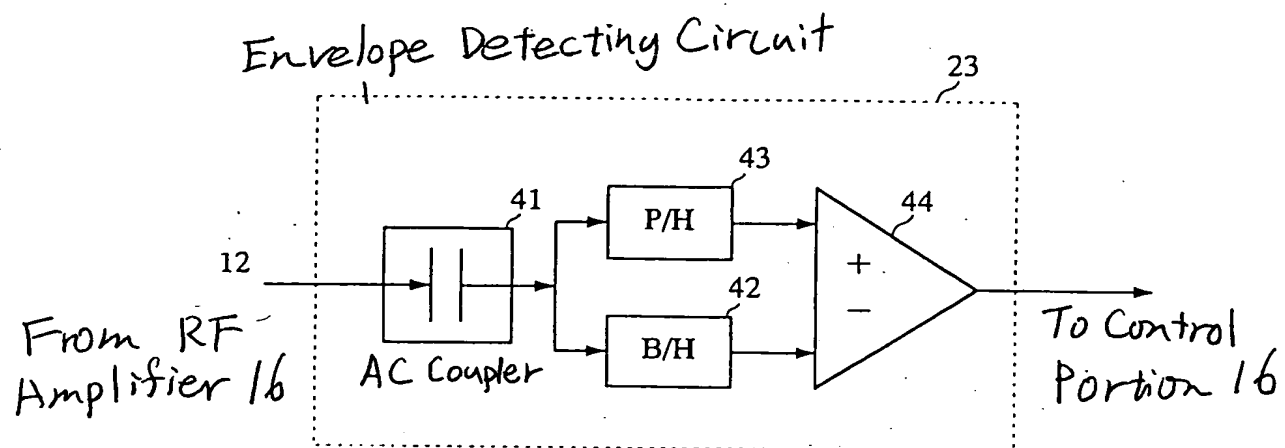


Fig. 14

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start
 S21 Optical disk set?
 S22 acquire initial information of the optical disk,
 decide the type of disk
 S23 display an inquiry of process
 S24 Processed input present?
 S25 Recording process?
 S26 reproducing process
 S27 overwrite?
 S29 record the data
 S32 reproduce the data being recorded at an optimum
 recording power
 S33 acquire and hold a PP value P0
 S34 reproduce the old data
 S35 acquire a PP value P1
 S37 change recording conditions
 S38 set the recording conditions to initial values
 S39 overwrite
 end

